MEMBERS

1. **Member**(Member_ID, M_Fname, M_Lname, M_Email, M_Phone, M_Address, Graduation_year, Semester_Joined, Applicant_ID[6], Gender, Status)
    a. **Executive_committee**(Executive_ID[1], Semester, Position)
        i. **Exec_Position**(Position, Position_Description)
    b. **Consultant**(Consultant_ID[1],Project_ID[12])
    c. **Alumni**(Alumni_ID[1], Start_Date, End_Date, Grad_School_Name, Organization_Name[3], Occupation, New_Phone, New_Email)
    d. **Project_Lead**(Project_Lead_ID[1], Project_ID[12])
    e. **Chair**(Chair_ID[1], Semester, Position)
        i. **Chair_Position**(Position, Position_Description)
    f. **Project_Advisor**(Project_Advisor_ID[1], Project_ID[12])
    g. **Inactive**(Inactive_ID[1], Semester_Inactive, Number_Semesters_Inactive, Number_Semesters_Active)

EVENTS

2. **Events**(Event_ID, Organizer[1], E_Date, E_Time, E_Location, ASUC_Sponsored, Est_Attendance, Budget)
    a. **Recruiting**(Recruiting_ID[2], Lead_Member_ID[1a])
    b. **Interview**(Interview_ID[2], Applicant_ID[6], Interview_ID[1a])
    c. **Meeting**(Meeting_ID[2], Agenda)
    d. **Social**(Social_ID[2], Transportation_Type)
    e. **Training**(Training_ID[2], Training_Name, Presenter_ID[1])
    f. **Other_Event**(Other_Event_ID[2], Other_name)

ORGANIZATIONS

3. **Organization**(Organization_ID, O_Name, O_Address, O_Phone, O_Email)
    a. **Client**(Client_Organization_ID[3], Source_Ref)
        i. **Active_client**(Act_Organization_ID[3], Active_Date)
        ii. **Applied_client**(App_Organization_ID[3], Application_Date, Application_status)
        iii. **Past_client**(Past_Client_Organization_ID[3], Date_Last_Active, Growth_Metric)
    b. **Sponsor**(Sponsor_Organization_ID[3], Type)
    c. **Other_Organization**(Other_Organization_ID[3], Type)
    d. **Org_Industry**(Organization_ID[3],Industry)

DECKS

4. **Deck**(Deck_ID, Title, Date)
    a. **Internal**(Internal_Deck_ID[4], Type, Event_Created_For[2])
    b. **Final_Client_Presentation**(Final_Deck_ID[4], Project_ID[12], Organization_ID[3], Location, Feedback)

TRANSACTIONS

5. **Transaction**(Transaction_ID, Amount, Member_ID[1], Purpose, Date_Logged)
    a. **Expenditure**(Expenditure_ID[5], Date_Spent, Date_Reimbursed)
    b. **Revenue**(Revenue_ID[5], Date_Given)

APPLICANTS

6. **Applicant**(Applicant_ID, A_Fname, A_Lname, A_Email, A_Phone, A_Address, Graduation_Year, GPA, No_Apps, Status, Teamwork_Score, Presentation_Score, Quant_Score, Nonprofit_Score, Compatibility_Score)
7. **Application**(Application_ID, Applicant_ID[6], File_Type, Application_Attachment, Source_Ref)
8. **Resume**(Resume_ID, Applicant_ID[6], File_Type, Resume_attachment)
9. **Cover_letter**(CL_ID, Applicant_ID[6], File_Type, CL_attachment)
10. **Transcript**(Transcript_ID, Applicant_ID[6], File_Type, Transcript_Attachment)

APPAREL

11. **Apparel**(Apparel_ID, Type, Order_Cost, Sale_Price, Manufacturer, Purchaser_ID[1])

PROJECTS

12. **Project**(Project_ID, Semester, P_Name, Organization_ID[3], Project_Lead_ID[1D], Final_Deck[4])

RELATIONSHIPS

13. **Leads**(Consultant_ID[1B], Training_ID[2E], Training_Deck)
14. **Plans**(Executive_ID[1A], Interview_ID[2B], Scheduling_System)
15. **Facilitates**(Executive_ID[1A], Meeting_ID[2C], Planning_Resource, Meeting_Deck)
16. **Spearheads**(Executive_ID[1A], Recruiting_ID[2A], Recruiting_Role, Hours_Contributed)
17. **Member_Attends**(Member_ID[1], Event_ID[2], Clock-In, Clock-Out)
18. **Applicant_Attends**(Applicant_ID[6], Event_ID[2], Referral_Source)
19. **Works_On**(Consultant_ID[1], Project_ID[12], Start_Date, End_Date)
20. **Utilizes**(Training_ID[2E], Int_Deck_ID[4A], Creation_Date, Update_Date)
21. **Made_For**(Project_ID[12], Client_ID[3A], Project_Scope, Semester, Contact)
22. **Spends**(Chair_ID[1E], Expenditure_ID[5A], Item, Price, Quantity, Money_Source)
23. **Member_Generates**(Member_ID[1], Revenue_ID[5B], Rev_Type)
24. **Donates**(Sponsor_ID[3B], Revenue_ID[5B], Rev_type)
25. **Org_Attends**(Organization_ID[3], Event_ID[2], Representative)
26. **App_Generates**(Revenue_ID[5B], Apparel_ID[11])
27. **Org_Generates**(Revenue_ID[5B], Organization_ID[3], Rev_Type)
28. **Becomes**(App_Organization_ID[3Aii], Act_Organization_ID[3Ai], Sem_Accepted)

29. **Consultant_Rank**(Project_Lead_ID[1D], Consultant_ID[1B], Semester, Rank)
30. **Project_Rank**(Consultant_ID[1B], Project_ID[12], Rank)

MULTIVALUED ATTRIBUTES

31. **M_Majors**(Member_ID[1], M_Major)
32. **M_Race**(Member_ID[1], M_Race)
33. **Authors**(Deck_ID[4], Member_ID[1])
34. **A_Majors**(Applicant_ID[6], Major)
35. **Advertising_Avenues**(Event_ID[2], Avenue)
36. **Project_Members**(Project_ID[12], Member_ID[1])
37. **Org_Comments**(Organization_ID[3], Comment, Comment_Date)
38. **Project_Comments**(Project_ID[12], Comment, Comment_Date)
39. **Client_App_Reviewers**(App_Organization_ID[3Aii], Member_ID[1])
40. **Alumni_Invited**(Social_ID[2D], Alumni_ID[1C])

SEMESTER

41. **Date_Translate**(Date, Semester)

QUERIES:

1. Applicant Scoring/Ranking System
    a. Weighted linear function
    b. GPA, Major, Year, Previously Applied?, Events Attended, Teamwork Score, Presentation Score, Quantitative Score, Non-Profit Passion Score, Compatibility Score
2. Marketing Strategy Breakdowns
    a. Facebook, Tabling/Flyering, Website, Info Session?
    b. Graphs showing percentages and changes over time
3. Alumni Company/Industry Info
    a. Personal Info and Documents organized by industry/company
4. PL-Consultant Matching Algorithm
    a. LP maximizing scoring compatibility between project leads and consultants
5. Budget Calculation and Forecast
    a. Use Revenue and Expenditure data for current balance
    b. Show rate of net profit and expected end of semester balance